2017 Kern Lipid Conference
“The Gut Microbiome, Bile Acids, and Regulatory Networks in Health and Disease: Emerging Therapeutic Approaches”
Monday, August 7, 2017 to Wednesday, August 9, 2017
Vail, Colorado
Organizers: Jed Friedman, PhD, Margrit Schwarz, PhD, and Michael Trauner, MD

Monday, August 7, 2017
Conference Registration

7:30-8:15am
Conference Check-In and Breakfast
Grand Ballroom Registration Desk

Kern Lecturer

8:30am
40th Anniversary Introduction and History
Introduction and Presentation of the Kern Lectureship Award
Moshe Levi, MD, University of Colorado Denver

2017 Kern Lecture:

8:45am
“Metabolic Cross Talk Between the Gut Microbiota and Its Host: Novel Therapeutic Opportunities”
Gary D. Wu, MD, University of Pennsylvania

Session 1: Connections and Cross-talk with the microbiome
Session Chair: Jed Friedman, PhD

9:50am
"Microbial pathways - the new therapeutic frontier in cardio metabolic diseases"
Stanley L. Hazen, MD, PhD, Cleveland Clinic

Introduction and presentation of the Journal of Lipid Research Junior Investigator Award and Lectureship
Stanley L. Hazen, MD, PhD, Cleveland Clinic

10:40am
"Western diets, gut dysbiosis, and metabolic diseases: Are they linked?"
Vanessa Leone, PhD, The University of Chicago

11:40am
"The intestinal microbiome secretome as a novel therapeutic approach for the treatment of metabolic and inflammatory diseases"
Bernat Raja, PhD, Second Genome, Inc.

12:30pm
Lunch
Mountain View Patio
### Session Continued

**Session Chair: Michael Trauner, MD**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker and Institution</th>
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<tbody>
<tr>
<td>1:30pm</td>
<td>“Bile acid signaling in gut and liver metabolism”</td>
<td>John Chiang, PhD, Northeast Ohio Medical University</td>
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<tr>
<td>2:20pm</td>
<td>“Gut reactions: chemical discovery in the human microbiome”</td>
<td>Emily Balskus, PhD, Harvard University</td>
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<td>3:10pm</td>
<td>“Tissue specific roles of FXR in NASH development”</td>
<td>Grace Guo, MBBS, PhD, Rutgers University</td>
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<td>4:00pm</td>
<td>“Medicines based on bacterial consortia”</td>
<td>Bernat Olle, PhD, Vedanta Biosciences</td>
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<td>4:50pm</td>
<td>Afternoon Break</td>
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<tr>
<td>6:15pm</td>
<td>Poster Session and Reception</td>
<td>Grand Ballroom, Salons F-J</td>
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**Tuesday, August 08, 2017**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
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<tbody>
<tr>
<td>7:15am</td>
<td>Breakfast Buffet</td>
<td>Grand Ballroom Foyer</td>
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**Session 2: Liver Diseases-GI, NASH, Cholestasis**

**Session Chair: Michael Trauner, MD (8:00am-11:40am)**

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<tbody>
<tr>
<td>8:00am</td>
<td>“How hepatocytes polarize and what happens when they don't”</td>
<td>Irwin Arias, MD, National Institutes of Health</td>
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<td>8:50am</td>
<td>&quot;Regulation of the Structure of the Gut Microbiome by Bile Acids and Antibacterial Compounds&quot;</td>
<td>Phillip Hylemon, PhD, Virginia Commonwealth University</td>
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<tr>
<td>9:40am</td>
<td>&quot;Human Genetic Studies Identify Lipid Biology as Key Regulators of Pathology in NAFLD&quot;</td>
<td>Elizabeth Speliotes, MD, PhD, MPH, University of Michigan</td>
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<tr>
<td>10:30am</td>
<td>Break</td>
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<tr>
<td>10:50am</td>
<td>&quot;TGR5 in Liver Disease&quot;</td>
<td>Verena Simone Keitel, Universität Düsseldorf</td>
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<tr>
<td>11:40am</td>
<td>“Metabolic effects of intestinal absorption and enterohepatic cycling of bile acids”</td>
<td>Paul Dawson, PhD, Emory University School of Medicine</td>
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</table>
12:30pm  Lunch
    Mountain View Patio

1:30pm  Industry Round Table
    Grand Ballroom Salons A-E

2:30pm-5:30pm  Poster Session
    Grand Ballroom Salons F-J

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**Wednesday, August 09, 2017**

7:30am  Breakfast Buffet
    Grand Ballroom Foyer

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**Session 3: Cardiovascular and Kidney disease**

*Session Chair: Margrit Schwarz, PhD*

- **8:00am**  Franz Simon Poster Award/Introduction – Recipients To be Announced
  Moshe Levi, MD, President, Kern Lipid Conference University of Colorado

- **8:05am**  Introduction and Presentation of the Roger Davis Lecturer
  Robert H. Eckel, MD, University of Colorado Denver, Aurora, Colorado

  **Roger Davis Lecture:**
  "TBD"
  Abigail Sloan Devlin, PhD, Harvard University

- **8:30am**  "Dissecting Diet-Microbe Interactions and their Impact to Cardiometabolic Disease"
  Federico E. Rey, PhD, University of Wisconsin-Madison

- **9:20am**  "Novel Mediators of Diabetes Associated Atherosclerosis"
  Sudha Biddinger, MD, PhD, Boston Children’s Hospital

- **10:10am**  "Lipoprotein transport of microbiome and environment-derived bacterial small RNAs"
  Kasey Vickers, PhD, Vanderbilt University

- **11:00am**  "Extracellular Vesicles, lipid mediators, and inflammation in NAFLD"
  Harmeet Malhi, M.B.B.S., Mayo Clinic

- **12:10**  Introduction to David L. Williams Lecture and Award
  Mary Sorci-Thomas, PhD, Medical College of Wisconsin

  **David L. Williams Lecture:**
  "TBD"
  Elizabeth Tarling, PhD, UCLA

- **12:45pm**  Lunch
  Mountain View Patio
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<tr>
<td>2:00pm</td>
<td>&quot;Bile acids role in gastric bypass resolution of diabetes and metabolic complications&quot; &lt;br&gt; Darleen Sandoval, PhD, University of Michigan</td>
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<tr>
<td>2:50pm</td>
<td>“Precision Microbe Reconstitution Reverses Maternal Diet-Induced Social and Synaptic Deficits in Offspring” &lt;br&gt; Mauro Costa-Mattioli, PhD, Baylor College</td>
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<tr>
<td>3:30pm</td>
<td>Afternoon Break</td>
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<tr>
<td>6:30pm</td>
<td>Dinner Reception &lt;br&gt; Grand Ballroom</td>
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<tr>
<td>9:30pm</td>
<td>Adjourn</td>
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